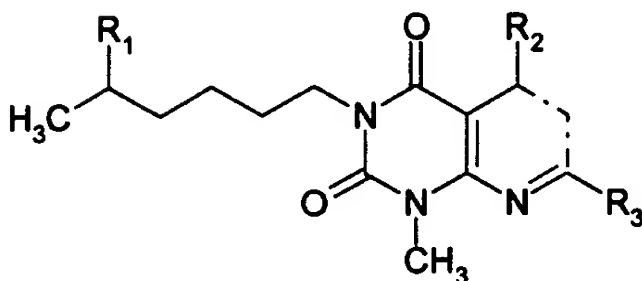


or



wherein:

R<sub>1</sub> is selected from a member of the group consisting of hydrogen, hydroxyl, methoxyl, acylamino group, cyano group, sulfo, sulfinyl, sulfhydryl (mercapto), sulfeno, sulfanyl, sulfamyl, sulfamino, and phosphino, phosphinyl, phospho, phosphono and -NR<sub>a</sub>R<sub>b</sub>, wherein each of R<sub>a</sub> and R<sub>b</sub> may be the same or different and each is selected from the group consisting of hydrogen and optionally substituted: C<sub>(1-20)</sub>alkyl, C<sub>(3-12)</sub>cycloalkyl, C<sub>(2-20)</sub>alkenyl, C<sub>(3-12)</sub>cycloalkenyl, C<sub>(2-20)</sub>alkynyl, aryl, heteroaryl, and heterocyclic group;

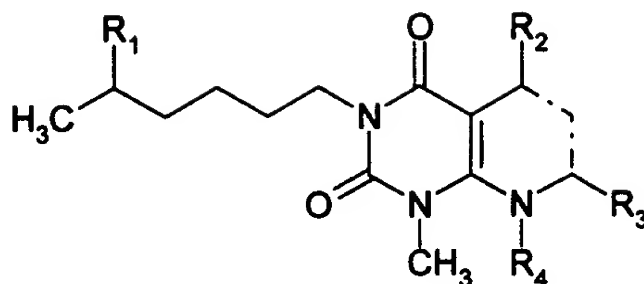
R<sub>2</sub> and R<sub>3</sub> are independently selected from a member of the group consisting of halo, oxo, C<sub>(1-20)</sub>alkyl, C<sub>(1-20)</sub>hydroxyalkyl, C<sub>(1-20)</sub>thioalkyl, C<sub>(1-20)</sub>alkylthio, C<sub>(1-20)</sub>alkylaminoalkyl, C<sub>(1-20)</sub>aminoalkyl, C<sub>(1-20)</sub>aminoalkoxyalkenyl, C<sub>(1-20)</sub>aminoalkoxyalkynyl, C<sub>(1-20)</sub>diaminoalkyl, C<sub>(1-20)</sub>triaminoalkyl, C<sub>(1-20)</sub>tetraaminoalkyl, C<sub>(1-20)</sub>alkylamido, C<sub>(1-20)</sub>alkylamidoalkyl, C<sub>(1-20)</sub>amidoalkyl, C<sub>(1-20)</sub>acetamidoalkyl, C<sub>(2-20)</sub>alkenyl, C<sub>(2-20)</sub>alkynyl, C<sub>(1-20)</sub>alkoxyl, C<sub>(1-20)</sub>alkoxyalkyl, C<sub>(1-20)</sub>dialkoxyalkyl, and -NR<sub>a</sub>R<sub>b</sub>; and

R<sub>4</sub> may be hydrogen or an optionally substituted member of the group consisting of C<sub>(1-20)</sub>alkyl, C<sub>(3-12)</sub>cycloalkyl, C<sub>(2-20)</sub>alkenyl, C<sub>(3-12)</sub>cycloalkenyl, C<sub>(2-20)</sub>alkynyl, aryl, heteroaryl, and heterocyclic group.

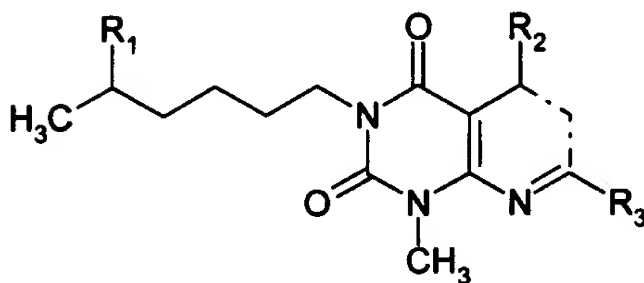
$\beta^2$  2. (Amended) The therapeutic compound of claim 1, wherein  $R_2$  and  $R_3$  are independently selected from a member of the group consisting of hydrogen, halo, thio, oxo,  $C_{(1-10)}$ alkyl,  $C_{(1-10)}$ hydroxyalkyl,  $C_{(1-10)}$ thioalkyl,  $C_{(1-10)}$ alkylthio,  $C_{(1-10)}$ alkylamino,  $C_{(1-10)}$ alkylaminoalkyl,  $C_{(1-10)}$ aminoalkyl,  $C_{(1-10)}$ aminoalkoxyalkenyl,  $C_{(1-10)}$ aminoalkoxyalkynyl,  $C_{(1-10)}$ diaminoalkyl,  $C_{(1-10)}$ triaminoalkyl,  $C_{(1-10)}$ tetraaminoalkyl,  $C_{(1-10)}$ aminotrialkoxyamino,  $C_{(1-10)}$ alkylamido,  $C_{(1-10)}$ alkylamidoalkyl,  $C_{(1-10)}$ amidoalkyl,  $C_{(1-10)}$ acetamidoalkyl,  $C_{(2-10)}$ alkenyl,  $C_{(2-10)}$ alkynyl,  $C_{(1-10)}$ alkoxy,  $C_{(1-10)}$ alkoxyalkyl, and  $C_{(1-10)}$ dialkoxyalkyl.

$\beta^3$  6. (Twice Amended) The therapeutic compound of claim 4, wherein the heterocyclic group is a member selected from the group consisting of acridinyl, aziridinyl, azocinyl, azepinyl, benzimidazolyl, benzodioxolanyl, benzofuranyl, benzothiophenyl, carbazole, 4a H-carbazole, chromanyl, chromenyl, cinnolinyl, decahydroquinolinyl, dioxindolyl, furazanyl, furyl, furfuryl, imidazolidinyl, imidazolyl, imidazolyl, 1H-indazolyl, indolenyl, indolinyl, indoliziny, indolyl, 3H-indolyl, isobenzofuranyl, isochromanyl, isoindolinyl, isoindolyl, isoquinolinyl, isothiazolyl, isoxazolyl, morpholinyl, naphthyridinyl, octahydro-isoquinolinyl, oxazolidinyl, oxazolyl, oxiranyl, perimidinyl, phenanthridinyl, phenanthrolinyl, phenarsazinyl, phenazinyl, phenothiazinyl, phenoxathiinyl, phenoxazinyl, phthalazinyl, piperazinyl, piperidinyl, 4-pipendonyl, piperidyl, pteridinyl, purinyl, pyranyl, pyrazinyl, pyrazolidinyl, pyrazolinyl, pyrazolyl, pyridazinyl, pyndinyl, pyridyl, pyndyl, pyrimidinyl, pyrrolidinyl, 2-pyrrolidonyl, pyrrolonyl, pyrrolyl, 2H-pyrrolyl, quinazolinyl, 4H-quinoliziny, quinolinyl, quinoxalinyl, quinuclidinyl,  $\beta$ -carbolinyl, tetrahydrofuranyl, tetrahydroisoquinolinyl, tetrahydroquinolinyl, tetrazolyl, 6H-1,2,5-thiadiazinyl, 2H-,6H-1,5,2-dithiazinyl, thianthrenyl, thiazolyl, thienyl, thiophenyl, triazinyl, xanthenyl and xanthinyl.

$\beta^4$  37. (Amended) A therapeutic compound, including resolved enantiomers, diastereomers, tautomers, salts and solvates thereof, having one of the following formulae:



or



wherein:

R<sub>1</sub> is selected from a member of the group consisting of hydrogen, hydroxyl, methoxyl, acylamino group, cyano group, sulfo, sulfonyl, sulfinyl, sulfhydryl (mercapto), sulfeno, sulfanilyl, sulfamyl, sulfamino, phosphino, phosphinyl, phospho, phosphono and -NR<sub>a</sub>R<sub>b</sub>, wherein each of R<sub>a</sub> and R<sub>b</sub> may be the same or different and each is selected from the group consisting of hydrogen and optionally substituted: C<sub>(1-20)</sub>alkyl, C<sub>(3-12)</sub>cycloalkyl, C<sub>(2-20)</sub>alkenyl, C<sub>(3-12)</sub>cycloalkenyl, C<sub>(2-20)</sub>alkynyl, aryl, heteroaryl, and heterocyclic group;

R<sub>2</sub> and R<sub>3</sub> are independently selected from a unsubstituted or substituted member of the group consisting of methyl, ethyl, oxo, isopropyl, n-propyl, isobutyl, n-butyl, t-butyl, 2-hydroxyethyl, 3-hydroxypropyl, 3-hydroxy-n-butyl, 2-methoxyethyl, 4-methoxy-n-butyl, 5-hydroxyhexyl, 2-bromopropyl, 3-dimethylaminobutyl, 4-chloropentyl, methylamino, aminomethyl, and methylphenyl; and

R<sub>4</sub> may be hydrogen or an optionally substituted member of the group consisting of C<sub>(1-20)</sub>alkyl, C<sub>(3-12)</sub>cycloalkyl, C<sub>(2-20)</sub>alkenyl, C<sub>(3-12)</sub>cycloalkenyl, C<sub>(2-20)</sub>alkynyl, aryl, heteroaryl, and heterocyclic group.